

ABSTRACT

Method and apparatus enabling worldwide reduction of carbon dioxide emissions and/or deforestation, personal clean energy system providing for cooking and/or electricity needs, earning emission credits, monetizing values of tradable emission rights/credits accruing
5 from emissions avoided by using the apparatus to pay for the cost of the apparatus and/or to provide ongoing revenue thereby inducing many people to substitute carbon containing fuels for cooking and/or electricity needs by a synergic combination of cooking **0** and electricity generation **21** on sunlight **H** through a low cost two-axis easy sun tracking mechanism including a bendable mirror **14** having variable curvatures r_m and tilt angles s_m , optimized for
10 the solar altitudes α_s at the latitudes, seasons and day times from equator to arctic, resulting in greatly augmented cooking power enabling high quality meals **0** through much shorter cooking times and longer/higher PV cell **21** outputs charging batteries **24** powering lights, refrigerator, television, computer, enabling worldwide education and sustainable development.